

**10/520333**

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/520,333  
Source: Py/10  
Date Processed by STIC: 1/13/05

**ENTERED**



PCT

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION:** US/10/520,333

**DATE:** 01/13/2005  
**TIME:** 17:18:01

**Input Set :** A:\082368-002100US.txt  
**Output Set:** N:\CRF4\01132005\J520333.raw

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4 <110> APPLICANT: The Kitasato Institute
5     Motokawa, Kenji
6     Kusuhara, Hajime
7     Koyama, Hiroyuki
8     Hohdatsu, Tsutomu
9     Arai, Setsuo
11 <120> TITLE OF INVENTION: FELINE INFECTIOUS PERITONITIS VACCINE
14 <130> FILE REFERENCE: 082368-002100US
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/520,333
C--> 16 <141> CURRENT FILING DATE: 2005-01-04
16 <150> PRIOR APPLICATION NUMBER: PCT/JP03/08524
17 <151> PRIOR FILING DATE: 2003-07-04
19 <150> PRIOR APPLICATION NUMBER: JP 2002-196290
20 <151> PRIOR FILING DATE: 2002-07-04
22 <160> NUMBER OF SEQ ID NOS: 8
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 1134
28 <212> TYPE: DNA
29 <213> ORGANISM: Feline infectious peritonitis virus
31 <400> SEQUENCE: 1
32 atggccacac agggacaacg cgtcaactgg ggagatgaac cttccaaaag acgtgatcgt 60
33 tctaactctc gtggtcggaa gaataataat atacctctt cattcttcaa ccccaccacc 120
34 ctgcacaacaaag gagctaaatt ttggtatgtta tgtccgagag actttgttcc caaggaaata 180
35 ggttaataagg atcaacaaat tggttattgg aacagacagg cgcgctttcg cattgtcaag 240
36 ggtcagcgta aggaactccc tgagagatgg tttttctatt tcttaggtac aggacctcat 300
37 gctgatgcta aatttaaga taagattgat ggagtcttct gggttgcaaa ggtatgggcc 360
38 atgaacaaacgc caacatcaact tggcactcgt ggaaccaaca atgaatccga accattgaga 420
39 tttgatggta agataccacc acaaattccag cttgaagtaa accgttctag gaataattca 480
40 aggtctggtt ctcagtcgtat atctggctca agaaacaggt ctcaatccag gggaaagacaa 540
41 caatccaata accagaataac taatgtttag gatacaattt tagctgtgt tcagaaatta 600
42 ggtgttactg acaagcaaaag gtcacgttct aaatcttagag accgttagtgta ctctaaatct 660
43 agagacacaa cacctaaaaa cgccaaacaaa cacaccttgg agaaaaactgc aggttaagggt 720
44 gatgtgacaa atttcttgg tgctagaagt gcttcggctc actttggta tagtgatctc 780
45 gttgccaatg gtaacgctgc caaatgctac cctcagatag ccgaatgcgt tccatcagta 840
46 tctagcgtgc ttttcgttag tcaatggtcc gctgaagaag ctggagatca agtggaaagtc 900
47 acacttactc acacctacta cctgccaaaaa ggtgatgcca aaaccagtca attcctagaa 960
48 cagattgacg cttacaagcg cccttcacaa gtagctaagg aacagaggaa accaaaggcct 1020
49 cgctctaagt ctgctgataa gaagcgttag gatttgtctg taactcttgt agaggcatac 1080
50 acagatgtgt ttgatgacac acaggttag gatgttgcgtt aggttacgaa cttaa 1134
52 <210> SEQ ID NO: 2
53 <211> LENGTH: 377
54 <212> TYPE: PRT

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55 <213> ORGANISM: Feline infectious peritonitis virus  
 57 <400> SEQUENCE: 2  
 58 Met Ala Thr Gln Gly Gln Arg Val Asn Trp Gly Asp Glu Pro Ser Lys  
 59 1 5 10 15  
 60 Arg Arg Asp Arg Ser Asn Ser Arg Gly Arg Lys Asn Asn Asn Ile Pro  
 61 20 25 30  
 62 Leu Ser Phe Phe Asn Pro Thr Thr Leu Glu Gln Gly Ala Lys Phe Trp  
 63 35 40 45  
 64 Tyr Val Cys Pro Arg Asp Phe Val Pro Lys Gly Ile Gly Asn Lys Asp  
 65 50 55 60  
 66 Gln Gln Ile Gly Tyr Trp Asn Arg Gln Ala Arg Phe Arg Ile Val Lys  
 67 65 70 75 80  
 68 Gly Gln Arg Lys Glu Leu Pro Glu Arg Trp Phe Phe Tyr Phe Leu Gly  
 69 85 90 95  
 70 Thr Gly Pro His Ala Asp Ala Lys Phe Lys Asp Lys Ile Asp Gly Val  
 71 100 105 110  
 72 Phe Trp Val Ala Lys Asp Gly Ala Met Asn Lys Pro Thr Ser Leu Gly  
 73 115 120 125  
 74 Thr Arg Gly Thr Asn Asn Glu Ser Glu Pro Leu Arg Phe Asp Gly Lys  
 75 130 135 140  
 76 Ile Pro Pro Gln Phe Gln Leu Glu Val Asn Arg Ser Arg Asn Asn Ser  
 77 145 150 155 160  
 78 Arg Ser Gly Ser Gln Ser Arg Ser Gly Ser Arg Asn Arg Ser Gln Ser  
 79 165 170 175  
 80 Arg Gly Arg Gln Gln Ser Asn Asn Gln Asn Thr Asn Val Glu Asp Thr  
 81 180 185 190  
 82 Ile Val Ala Val Leu Gln Lys Leu Gly Val Thr Asp Lys Gln Arg Ser  
 83 195 200 205  
 84 Arg Ser Lys Ser Arg Asp Arg Ser Asp Ser Lys Ser Arg Asp Thr Thr  
 85 210 215 220  
 86 Pro Lys Asn Ala Asn Lys His Thr Trp Lys Lys Thr Ala Gly Lys Gly  
 87 225 230 235 240  
 88 Asp Val Thr Asn Phe Phe Gly Ala Arg Ser Ala Ser Ala Asn Phe Gly  
 89 245 250 255  
 90 Asp Ser Asp Leu Val Ala Asn Gly Asn Ala Ala Lys Cys Tyr Pro Gln  
 91 260 265 270  
 92 Ile Ala Glu Cys Val Pro Ser Val Ser Ser Val Leu Phe Gly Ser Gln  
 93 275 280 285  
 94 Trp Ser Ala Glu Glu Ala Gly Asp Gln Val Lys Val Thr Leu Thr His  
 95 290 295 300  
 96 Thr Tyr Tyr Leu Pro Lys Gly Asp Ala Lys Thr Ser Gln Phe Leu Glu  
 97 305 310 315 320  
 98 Gln Ile Asp Ala Tyr Lys Arg Pro Ser Gln Val Ala Lys Glu Gln Arg  
 99 325 330 335  
 100 Lys Pro Lys Pro Arg Ser Lys Ser Ala Asp Lys Lys Pro Glu Glu Leu  
 101 340 345 350  
 102 Ser Val Thr Leu Val Glu Ala Tyr Thr Asp Val Phe Asp Asp Thr Gln  
 103 355 360 365  
 104 Val Glu Met Ile Asp Glu Val Thr Asn

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/520,333

DATE: 01/13/2005

TIME: 17:18:01

Input Set : A:\082368-002100US.txt  
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105 370 375  
108 <210> SEQ ID NO: 3  
109 <211> LENGTH: 30  
110 <212> TYPE: DNA  
111 <213> ORGANISM: Artificial Sequence  
113 <220> FEATURE:  
114 <223> OTHER INFORMATION: Artificially synthesized primer sequence  
116 <400> SEQUENCE: 3  
117 ggggaattca attaaaggca actactgcc 30  
119 <210> SEQ ID NO: 4  
120 <211> LENGTH: 41  
121 <212> TYPE: DNA  
122 <213> ORGANISM: Artificial Sequence  
124 <220> FEATURE:  
125 <223> OTHER INFORMATION: Artificially synthesized primer sequence  
127 <400> SEQUENCE: 4  
128 ctgtgaattc tgcaggatcc tttttttttt tttttttttt t 41  
130 <210> SEQ ID NO: 5  
131 <211> LENGTH: 20  
132 <212> TYPE: DNA  
133 <213> ORGANISM: Artificial Sequence  
135 <220> FEATURE:  
136 <223> OTHER INFORMATION: Artificially synthesized primer sequence  
138 <400> SEQUENCE: 5  
139 caactgggga gatgaacctt 20  
141 <210> SEQ ID NO: 6  
142 <211> LENGTH: 20  
143 <212> TYPE: DNA  
144 <213> ORGANISM: Artificial Sequence  
146 <220> FEATURE:  
147 <223> OTHER INFORMATION: Artificially synthesized primer sequence  
149 <400> SEQUENCE: 6  
150 ggttagcatt ggcagcgtta 20  
152 <210> SEQ ID NO: 7  
153 <211> LENGTH: 22  
154 <212> TYPE: DNA  
155 <213> ORGANISM: Artificial Sequence  
157 <220> FEATURE:  
158 <223> OTHER INFORMATION: Artificially synthesized primer sequence  
160 <400> SEQUENCE: 7  
161 attgatggag tcttcgggt tg 22  
163 <210> SEQ ID NO: 8  
164 <211> LENGTH: 23  
165 <212> TYPE: DNA  
166 <213> ORGANISM: Artificial Sequence  
168 <220> FEATURE:  
169 <223> OTHER INFORMATION: Artificially synthesized primer sequence  
171 <400> SEQUENCE: 8  
172 ttggcattct taggttgtgt gtc 23

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/520,333

DATE: 01/13/2005

TIME: 17:18:02

Input Set : A:\082368-002100US.txt

Output Set: N:\CRF4\01132005\J520333.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date